

May 20, 1957 50 Cent

Design Manual:

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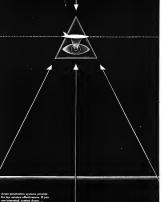
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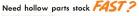
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AVENTON WEEK, May 30, 1917

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IN MEETS

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Pneumatic De-Icers keep radomes clear without distorting radar signal



Parameric Devicers, opening with

REGoodrich Aviation Products a division of the B.F. Bondrich Company, Akron, Ohio

COMMERCIAL AUGUNTES, TOO

EDITORIAL

New Federal Air Agency Needed

The final errors of Edward P. Cartin, second eviction. tankties planning solvier to President Escabawer. stakes stunds to the beast of the mobiles that has documed all of the mone postwar efforts to modernion the federal samples and traffic control system to foliarof authority and responsibility throughout several federal species. Any effort to poles the treffer control mobbies portiably borned down in the moons of afficial ted tope and businessive back-possing. Mr Cartis states that fact at much more politic and dislocate terms but they in the merces of what he merces The Ar Condinator Consulter was established to

description of process and council to make decisions on broad avistion policy and specific wroughts between agreries. However, ACC action one come only from passamost decision and see unde server on me the acts. power last as effectively as the Soviet Union in the Uceted Nations Security Council ACC has relead many meter solution problems, but has been empotent m the face of any major issue that washed extrelevent. month market

New Agency Proposed

To solve that writing problem, Mr. Cartis recommends creation of a new and all nonrobal Redend Agreem Accues, details of which are described on man 26. This new spency, bended by a curdion but studied by both and and maltery available experts, would have full eathouty to implement indent ariation policy on air traffic control coverage and safety ognization. It would also be the sale alone where empored billy for nettrac there sale done processly and efficiently could be fixed. Like Mr. Courte. we sensed the growth of the federal bureactory with settowice. But we went arrow with how that this is a case where creation of a new federal agreey is not merely

Aviation has straggled with the current hodge-pader of discount authority and responsibility for too years refront making any substantial enteres on the major confirm that we restricting to errorth and unnership rts safety. These is no hope in such debuting nocierous ss the Air Coordinating Coveration, well introduced though they may be. Not is there are hope as love as reates noisy a stated water several from of calmen

We recommend that manhols concerned with mintwo read the following oppure taken from Mr. Carto's

"The United States is because more and over an or community. Daving the lest several years our notional strature has come to not essentially on an economic or str widowar manufacturious. The industrial slidly devoted

"The attolete has become the name move of our possistion to its escalation over distances beyond 200

"These developments us changing the American non of life, our habits of work, our national carbonic bit they are given more to follow their logical evolution they may well provide the principal nucleation elements to our social and economic wall being as well as our unticed streeth for years to come." Clearly a technology that offers such potential is our rational dracture deserves in independent voice and

a proper about in the councils of our mannered There can be many excest points of difference amount the various elements in the emittee energy percentage just what the new Federal Aviation Agency should do and how it should be done. These is a fine forum for these discussors before the proper Congressional com-

Unified Support Needed

But all elements of swinten should get tagether now and amount wholeheartedly the concept of the new report. For at will at last provide the proper port of formework within which all of the elements in senten-

can resolve their conflicts and push forward tearriber in the directions that are vitally necessary to the nature growth of avpower and the compenie health and rater entropic operation of our country. The only alternative a reather decade of chaos, worked assessments and We will have more to say later about the other de-

biled unblone covered to Mr Corta's pracet. For the moment we would him to put on the record a recomming "well done" for Mr. Curts and his staff who taskled their task with keen technical morght, threaded their way much though the laboverh of postument and had the course to face the stars around and amount a state its needs and offer its services to the American peritive biseprint for aviation progress -Robert Hote



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> Chance Voorbi's sleek New fielder, the Fifth County combines a reserved engine and a trice, lightweight surframe Forme and acodynamic heating of supersonic sureraft, his the Counder, demand high-strength titudium alloy short. It was BEAGCEST which developed worse of the successful allows now in use, and estabwhich led to towners production.

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INDUSTRY OBSERVER

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shall advoce on remains. (For USAF, Asser positions on entrance): * Brow Accornected Co. has designs for a high-perfectionance, supersonal

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*Mirror landing system has resulted in a sharp declare in New's manual! to down about earthod of what it was in the best year below the prograwas introduced. Overall, Navy improved the sacident second by 13% during Final 1995. Of the total, 55% were attributed to eiler ever 2.4% to eministrance personal, 12% to supervisor personal. Material failure facilities by \$70.0 pathon during Facel 1993, from \$50.5 million in French

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most than 4,000 hors been made for the U.S. Arms at Reddons Amend through the use of a recket releast. Publication of the Sedings is uncertain ► Storing B 52 currences \$130 worth of feel and libricating oil per fixing



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Washington Roundup

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'Peril-Paint' Budget

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Curtis Wants New Agency, End to CAA

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Curtis Proposal Reaches Senate

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First F-105 Flight Photo Reveals Design Detail

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Mahon Moves to Trim Missile Projects

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Atomic Missile Firing meets, Dropter ME-1 provincely dang-

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AVAILON WEEK May 15, 1557

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USAF, Navy Report Unexpended Balance

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DO 27 Will Be Offered To Commercial Buyers

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Widening mankind's horizon by conquering WIDE OPEN SPACES

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AVIATION WITE, May 50, 1727

AIR TRANSPORT

North Central Battles to Escape Subsidy



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Indirect Competition

NATE IMPACT to soughted south

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The JST to a leg bresset! The terboist engag which may than 5,000 But what do these figures really our about the JOF 3-51 intercodinental beary bomber, and \$20,000 . . . that it takes a west network of parts applica that it takes teamwork on more and to establob and maintain quality release production You can see cold statistics don't tell the full story:



AIRCRAFT ENGINE DIVISION . FORD MOTOR COMPANY 7401 SOUTH CICERO AVENUE . . CHICAGO 29. ILLINOIS



Italy to Merge, Demilitarize Airlines and administrative inefficiency, the fi-

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"oops! headwinds"

lose a windrock for military pilots these days. GPL's Domeler auto-navigation systems tell there "Headwind" - and how much the instant one appears, let them seek a more and feet - and provide a proceless morph of

GPI. Develor auto-navientors are beingter about a revolution in firsts. Their benefits will one day soon extend to everyone.



CREEK, PRECISIN LIBOURTERS INCORPORADO, Pleasantille, N. Y.

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ALPA Will Pay Dues. Dividend to Members

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MATS Bule

ATA Asks Congress to Curb Passenger Operations of MATS

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Senate Group Allows 8352 Million for CAA

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SHORTLINES

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the five world, contributes neather special competence to world pages. Write Dags. R.

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Airline Traffic - March, 1957

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Ocean Cargo Service Gains In First Year

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PEDERAL-MODIL COMES MAKINGS, INC. + REFROIT 14, INCHIGAN



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AVIATION WEEK, May 50 1757





Aerobee Sets Record

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821 Million For Navaho Awarded North American North American Asiatise has recoold additional 521 reflam for reserved and development west on Au-Feorit's 534 of Novelon intercentmental result, currently under not in Finish Constants's March Producer Be-



Valve Talk

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Consolidated Electrodynamics



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OFFICES IN PRINCIPAL CITIES THROUGHOUT THE WORLD

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De Havilland to Build

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economical GRAMIX° in the exact form to meet your ... ready to install!

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ENGINEERING BULLETIN No. 19
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GENERAL LABORATORY ASSOCIATES, INC.

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North American Options 12 600 Acres In Nevada

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VEXT.RTS NOSE appears in change above with plane hooked on and tritler bed lowered to horizontal posture after hading. Ground service tasker is used for takend and looking, ground stockship. Note text bour vacua.



10, 1957 AVLATION MESK, May 20, 1957



*The first successful interception of an aircraft by a guided missile was achieved by the Lark-equipped

with a Raytheon guidance system. Today Raytheon is the prime contractor for the Navy's Sparrow III and the Army's Hawk missiles.



BAYTHEON MANUFACTURING COMPANY

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Reactors Developed By North American

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General Flectric Offers a Complete Line of Instruments for Rusiness Commercial Aviation



DECEMBER INSTRUMENTS



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Atar P2 In Flight

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The Lifetime of Communication MARCONI ELECTRONICS FOR AVIATION

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Systems engineering-38th parallel style

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And-delivery on scholale. STROMBERG-CARLSON COMPANY



Turbomotor Describes Light Engine Bid

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"It stands to reason, Jim... the safest engine is a clean engine... and there's no cleaner engine than a Gulf-lubricated engine!"

Aircraft Engine Oil, the straight mineral oil Either way, you'd be bearing year earling clean, and phaying It cade.

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KITATION WITE, May 25, 1807

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CYLINDERS

Submerted by Weatherhead to strict specifications

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unique dual-role radar guidance

system by Reeves

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Here is yet another example at Florent' does and highly auconomial

REEVES INSTRUMENT CORPORATION



helps Navy's

first auided missile destroyer pack a battleship's wallop

Jet Engine Fuel Control Test Is Discussed at Symposium

Detroit, Mich - How resistantly ex-Eucabally the custoners bodel down to selection it is necessary to

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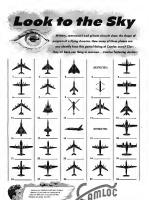






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FJ-4Bs Delivered for Test First two Firsts, which are excessed with new tree social brokes (below), was defected to Novel Are Test Cooker, Palesent West, Md. for trat. New Fary corner regiliery stoops, books, his stability approximate for live altitude use.

Charts Offer "First Pass" Design Check

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This handless is not intended to region the classical the accordence formulas my emorgic. Following is a Bit of the formulas used to the graphs and others that

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 $G_i(B)_{i=1},\dots,i=1$ = $\frac{1}{2}$ $\sqrt{\frac{1}{G(G)_{i=1},\dots,i=1}}$

(10) Energy = $\left(\frac{V}{VW}\right)(1/D) \ln \frac{W_0}{W}$

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without a store to the want area. It is most useful at the Chart E shows variables and it model to adentus the Sans. When some this chart for correspon calculations. enter at the necess "K" freter and proceed nerves the about as shown up the mumple. The (C_{loss}) is figured from Chart I were (As and Paul The (C_{res}) and will easy with type of abraham, faith, on, but will tought fell between 0,0050 or 0,0007. Most high spend successful moundary will be around 0.0675 or 0.0654. The correspond normarys will be account O'0013 of O'0014. The countries norm effectively used today must readily attainable in 0.001 intersection of (C_{com.}) gives (L/D mem.) and C_{c. Com.}... This will give the recolour capabilities, for the variables selected, previded the power in artificide. Another was of hadone at it would be to say that some the agregate and goodshift he operating at reporting less than maximum. been set up to goe shitteds, block number and dynamic process. The second (IF = Cite) will rep denamic pressure, wing leading, and coefficient of fit. This elast is especially their loss a number of reasons it will give altitude expalsibles, what loading establishes, the actual G. at given conditions, and the demante possesses at which the sixplene is upstuding. Purhaps the greatest me in the national takes of the trades which can be seen

To use the chart enter on the left of Moch number or hened and proceed to the right arross the chest sold you

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Wine Leading As an everyic, suppose we have no simplice capable of Much 2 flight with a (C, for L/D muc.) =: 920 and we are to fir at \$0.000, 72,000, and \$0,000 h. It is then desired to know what wing leading the steplens could corry under those conditions. From the obest we find that the wing leading expubilities are 80, 52, and 53 5 lb. When a unit recount surplane in its he designed, that chart is very meful in matching the airclass conshibites. (i.e., subspect to supermore lead current expedition). These charts are be no means a prances. However, they well mable the designer to come much done on the light

Chart IV is to give a perforal semination to the designer acted area, and the coefficient of fraction on the load earning espainities of the surplane. This chart can be red to give indication of the size arrest required to (c) == 2600, and a warsht of 250,000 h at an (L/D) of 120 - (2AvCo). If we some 0.0004 for the 17,650 so ft. If this ways to be a conventional type plane. lowe Chart I, we obtain a wing area of appreximately 4,200 ft." Calculate (Cour.) by using the above informs has which well rive (Count on 0.004). From Chart II

ANAZION WEEK, May 20, 1157

wy find (C_L) for (L/D max - 0.245) and an aspect ratio 1.57 by assuming a spen efficency of 0.80. Of course the world be a very poor denier but in used here for the jurgation purposes. Charge the shore conditions to read (L/D mex -- 15), helding the rast constant and you will

(*) $C_{\rm e} = 2000 \, \Omega^+ \, A_{\rm e} = 10,000$ (\$) $C_{\rm cros.} = 8140$ (\$) $C_{\rm c} \, \log \, L \, D_{\rm esc.} = approximately 0.42$ (\$) Appet Ease: — approximately 0.42All the world correspond with an altitude of expressimatch \$3,000 ft with speed of Much 6,80. From Chart. elitary is desired a lease for must be offered with a Chart V provides quick access to the log ratio of the weight follow to the weight manus feel.

Coset VI is the classic range farmula. (Bases = Toron Gall is Wa and in expensive modul for abound the trades to (L/D) and (in Wo.) ratios for a constant sty and come across sadd intersecting the SFC has correspossible to the conditions relocted. Proceed down the (V/SFC) has less the models chart to the [L/D (arms)] idensection. The gives a range constant on a diagram intersection of the harvooral projection of the (In 197



New fittings speed installation of aircraft plumbing lines

Dunbar Kapple SWIVEL FITTINGS can be adjusted a full 360°

Here's a new alea in firmer that speeds instellaparts of Indicatio, fuel, see, and refrigerate lines. le's a new Douber Kapple line of sweet and slign-

FOT AN INDICE SPATS - Smalley correless and waterd action

ELINEATE TOPOUR, LESSAGE - Served Seizes con restric

Mode's for preciouse to 3,990 pail, tempore Speci-2017, In 45177 ---



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Answers to the Tourhest Problems in Jet Aircraft Cooling ...

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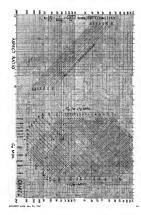




The South Wind Division of Stewart-Wesser pisserred the development of heat exchange equipment for heating modern ercreft New South Word to the booking producer of heat exsteel and abavesure-either sir-to-sir, san-to-based, or sin-tocomposition, broad, are becor decimal and fabricated for a wide range of new and reportant uses. If you have a heat transfer menham. South Wind sustances and help you solve it. No obligation. Write to South Wind Districe, Stowart-Wester Corpora-

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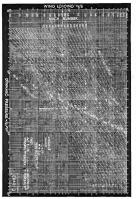
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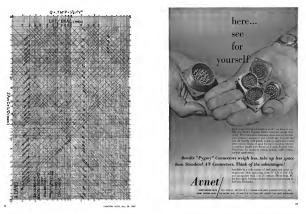


S. E. William Institution Coulous Court N, 70 Cost +973 Street New York 16, N. W.





AVANCIN WEEK, May 28, 1957









46 Pound Turbostarter Gives High Thrust Engines 25 Second, Push Button Starts

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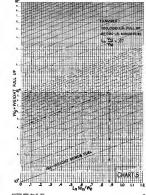
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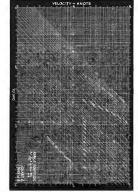
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AVAILON WEEK, May 20, 1957



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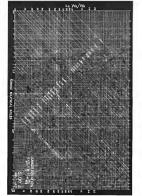
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SWEDOW PLASTICS COMPANY

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AVAILOR WERE May 20, 1997



Plexiglas

... aviation's

standard transparent plastic



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7329 G-E 5-Star 6414 tubes in IBM SAGE computer show no opens, shorts, or mechanical defects!

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ON THE NEW LOCKHEED SLECTER Simplifies Connection of Hot Air Bleed Lines

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MARMAN DIVISION

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ANALYSIN WEEK, May 20, 1957

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First German Navy Pilots Train to Fly Sea Hawks

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Higher Falors mindle, much based or both of McGaneed EWCS intracertor in named fight (below), or calculat and moved for felog (above). Mission find from helly and otherwise read to follow standarders, buretor fooders: In lith velocity smalle as Februs.





The new Equificx vibration isolator pictured above is designed particularly for applications where strict adherence to Government specifications is important. Barrel-shaped springs of heavier wire are assembled diagonally instead of radially and the result is a rogged, highly democd mount with excellent resistance to prolonged vibration at resonant frequencies. In addition to this improved performance, all the advantages of an all-metal mount with considerational isola-

SPECIAL FEATURES

- . Low samplification at resonance. Appears · Temperature rance without charge 175 F. immely 2 times depending upon input arrefrude.
- · Vibration and shock recognition characteris. · Reserved ferromer between 15 and 20 ties unchanged by researed shocks of 22 s. n. s. depending upon mounting ands. logut amplitude and location of center of . Unharmed by hours of resonance with
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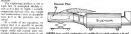
Mobile Suppressor Proposed to Airlines

By George L. Christian

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* * * Cutter-Hammer

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What you should know about Cutler-Hammer 1920 Cutire-Rommer designed and 1838 Cutter Howare descript and

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